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TITLE: Backlight illumination controller for **LCD** device **- detects maximum brightness** level of input video signal in proportion to which illumination of backlight is controlled

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Title - TIX (1):

Backlight illumination controller for **LCD** device **- detects maximum brightness** level of input video signal in proportion to which illumination of backlight is controlled

PATENT ABSTRACTS OF JAPAN

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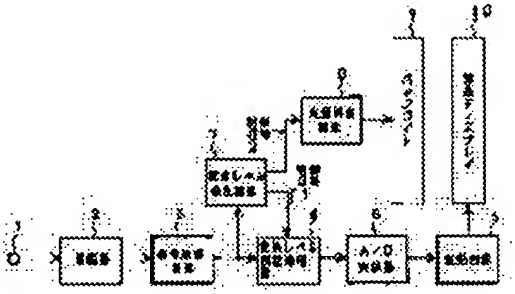
(72)Inventor : WATANABE KENJI

(54) LIQUID CRYSTAL DISPLAY DEVICE

(57)Abstract:
PROBLEM TO BE SOLVED: To easily maximize contrast and to reduce heat generation and power consumption by controlling light quantity in proportion to the maximum luminance level of an input video signal.
SOLUTION: A luminance level detecting circuit 7, upon detecting the maximum level of luminance is for example 100 IRE from a Y signal in a signal processing circuit 3, transmits to a conversion level adjusting amplifier 4 a control signal 1 that sets the gain at one, and also transmits to a light quantity control circuit 8 a control signal 2 that sets the light quantity of the back light 9 at 100%. Then, in the case where a signal is inputted corresponding to the maximum level luminance 30% (30 IRE) from an inputting part 1, this signal is amplified by an amplifier 2 and processed by the signal processing circuit 3, while the luminance level detecting circuit 7, upon detecting the maximum level of the luminance is 30 IREV from the processed Y signal, transmits to the conversion level adjusting amplifier 4 the control signal 1 that increases the gain 100/30=3.3 times, and also transmits to the light quantity control circuit 8 the control signal 2 that sets the light quantity of the back light 9 at 30%.



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